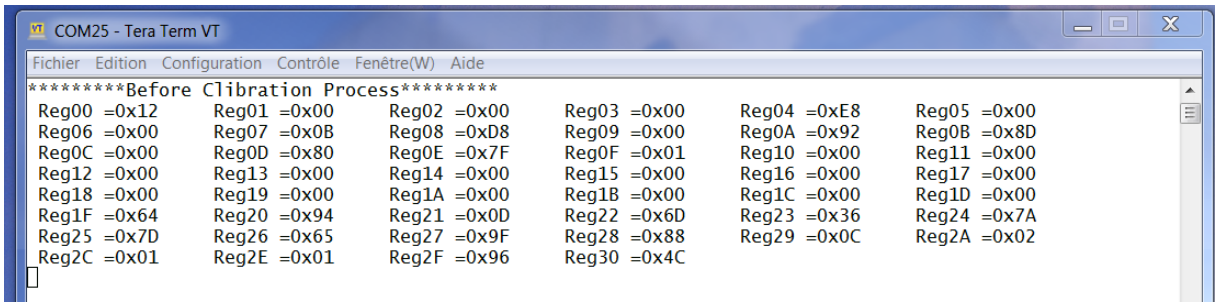
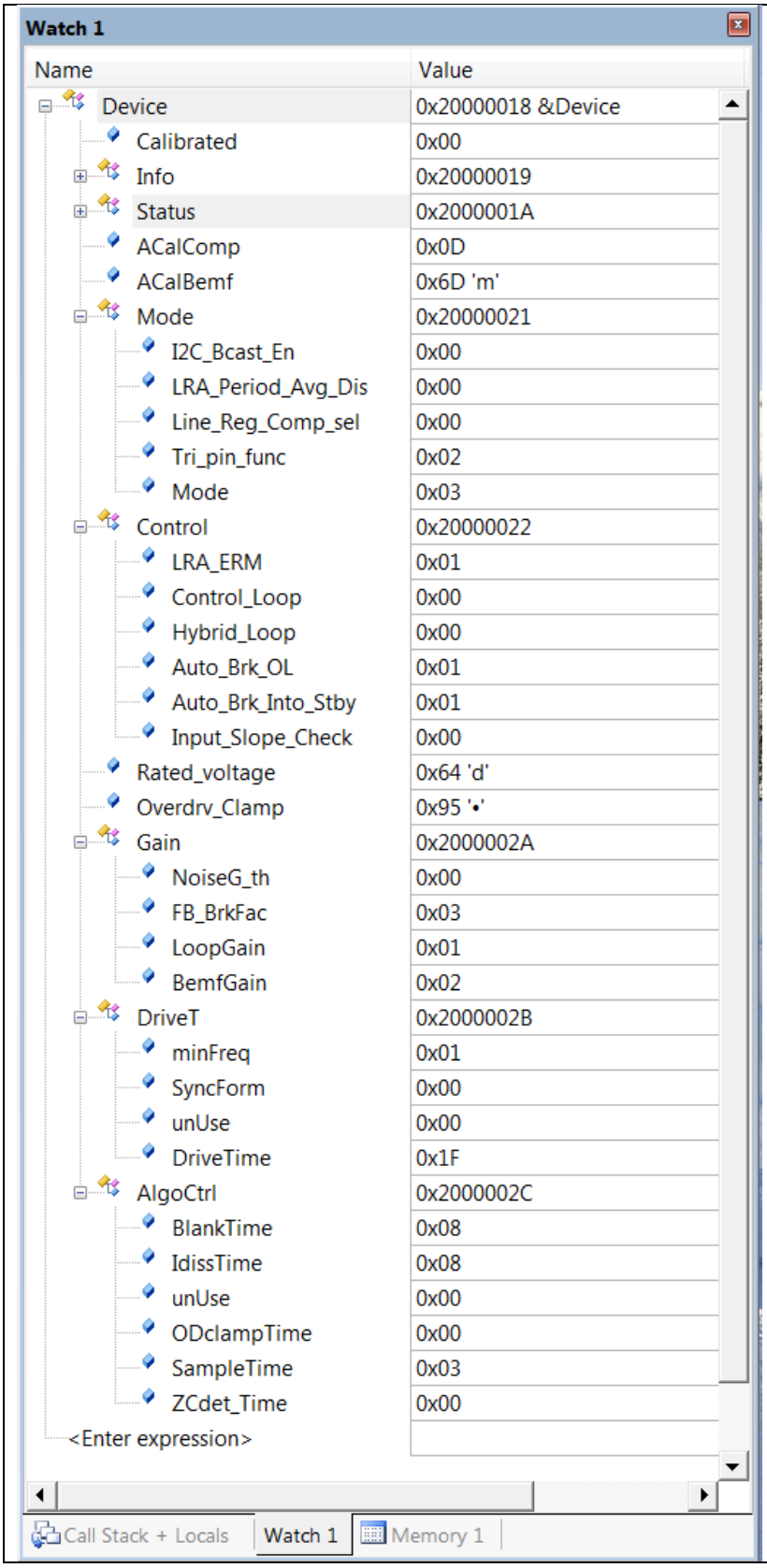
Device Configuration:





$F_{actuator}$=100Hz => Drive Time should be set to 5ms (cf.Data sheet page 23). But Drive Time Maximum setting allowed is 3.6ms (cf.Data sheet page 54).

Mode: =0x0B
- Broadcast Disable
- Average LRA Periods
- 0% Regulation Compensate
- Interrupt Trigger Function

Control: =0x98
- LRA Actuator Type
- Control Loop (Closed Loop)
- Hybrid Loop Disable (Full Closed Loop)
- Auto Brake in Open Loop Enable
- Auto Brake if Necessary, Enable
- No Input Slop Check

Rate Voltage= 2.23V => 0x64

Clamp Voltage =3.16V => 0x95

Gain: = 0x36
- Noise Gate Threshold (4% off Supply Voltage)
- Brake Factor (4x)
- Loop Gain (Slow)
- BEMF Gain (20x)

Drive Time: =0x9F
- Minimum Frequency Allowed (45Hz)
- Re-Synchronize to Minimum Frequency
- Drive Time (3.6ms)

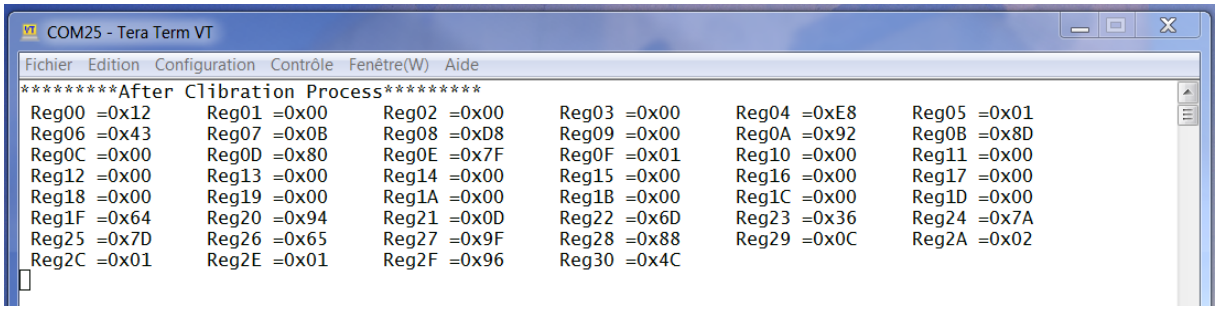
Algorithm Control:

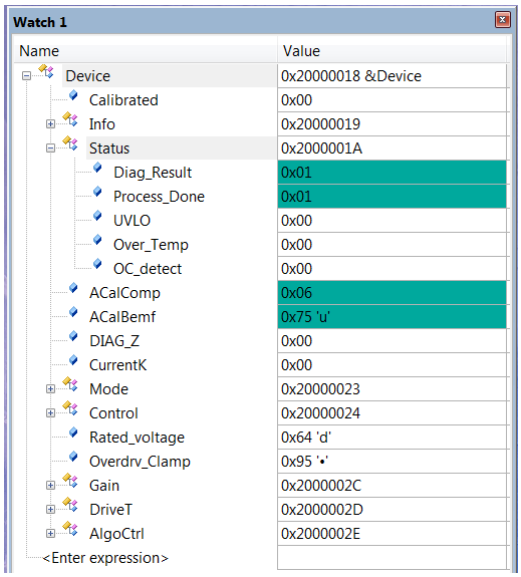
Reg28h: =0x88
- Blanking Time (150µs)
- Current Dissipation Time(150µs)

Reg29h: =0x0C
- Over Drive Clamp Time (Automatic)
- Sample Time (300µs)
- Zero-Crossing Detection Time (100µs)

Auto-Calibration Time: =1000ms

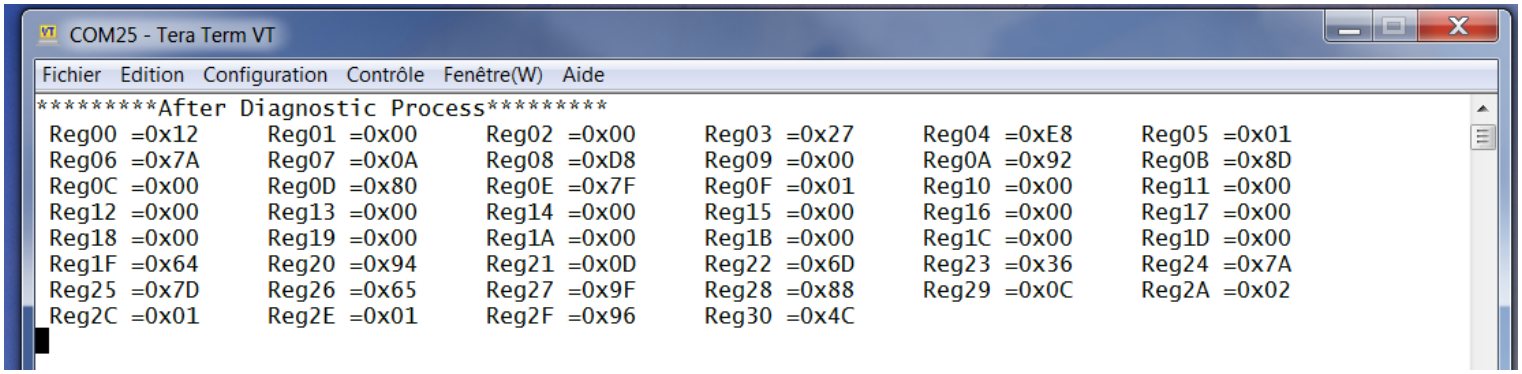
After Calibration Process:

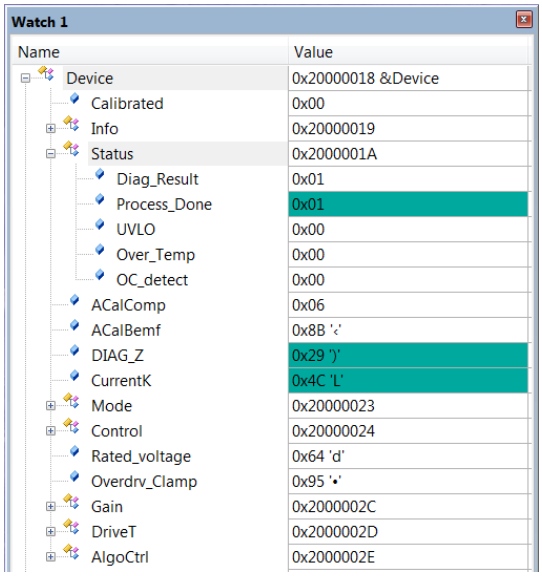




Calibration Process Failed with None Over Temperature or Over Current Detection

After Diagnostic Process:





The process gives an Average impedance measurement about 18Ohms.